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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/566,504	01/31/2006	Karine Villegas	1032326-000330	7562	
21839 759 BUCHANAN IN	90 01/29/2001 NGERSOLL & ROOM	EXAMINER			
POST OFFICE BOX 1404			ARANI, TAGHI T		
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER	
			2131		
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVER	DELIVERY MODE	
3 MONTHS		01/29/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No.	Applicant(s)					
		10/566,504	VILLEGAS ET AL.	VILLEGAS ET AL.				
		Examiner	Art Unit					
		Taghi T. Arani	2131	•				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory to period for reply within the set or extended period for reply will, by seply received by the Office later than three months after the need patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a r h. eriod will apply and will expire SIX (6) MON tatute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication (35 U.S.C. § 133).					
Status	,							
2a) <u></u> ☐	Responsive to communication(s) filed on 3 This action is FINAL . 2b) Since this application is in condition for all closed in accordance with the practice und	This action is non-final. wance except for formal matt	•	erits is				
Dispositi	on of Claims							
5) [Claim(s) 1-25 is/are pending in the applicated 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1-25 is/are rejected. Claim(s) 13-14,24 and 25 is/are objected to Claim(s) are subject to restriction are on Papers	drawn from consideration.						
	•							
10)	The specification is objected to by the Exan The drawing(s) filed on is/are: a) \[Applicant may not request that any objection to Replacement drawing sheet(s) including the column of the oath or declaration is objected to by the	accepted or b) objected to lead of the drawing (s) be held in abeyan rection is required if the drawing (ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.	• •				
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) 🔲 Notice 3) 🔯 Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date 1.31,2006.	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application 					

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DETAILED ACTION

1. Claims 1-25 have been examined and are pending.

Claim Objections

2. Claims 13-14 and 24-25 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title,

3. Claims 1-25 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As per the MPEP, specifically section 2106(2)(a), it is imperative that a claimed invention as a whole accomplishes a practical application and that it produces a "useful, concrete and tangible result." State Street, 149 F.3d at 1373, 47 USPQ2d at 1601-02.

The purpose of this requirement is to limit patent protection to inventions that possess a

certain level of "real world" value, as opposed to subject matter that represents nothing more than an idea or concept, or is simply a starting point for future investigation or research (Brenner v. Manson, 383 U.S. 519,528-36, 148 USPQ 689, 693-96); In re Ziegler, 992, F.2d 1197, 1200-03, 26 USPQ2d 1600, 1603-06 (Fed. Cir. 1993)).

Apart from the utility requirement of 35 U.S.C. 101, usefulness under the patent eligibility standard requires significant functionality to be present to satisfy the useful

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result aspect of the practical application requirement. See Arrhythmia, 958 F.2d at 1057, 22 USPQ2d at 1036.

Claims 1 and 15 are directed to a method of "securely implementing a publickey cryptography algorithm". said method consisting in determining a set E comprising a predetermined number of prime numbers e that can correspond to the value of the public exponent e. at step c) the method calls for testing whether the result of a predetermined computation is equal to a value φ /ei: if so, then attributing the e_i to e otherwise observing that the computations of the cryptography algorithm using the value e cannot be performed. The examiner respectfully asserts that mere testing/attributing the value of ei to e or otherwise, does not produce a useful, concrete and tangible result" (as per Applicant's own description (specification, page 11, lines 12-15) "the value of public exponent e" is determined form a set of predetermined probable values", emphasis added). Therefore, the claimed subject matter does not fall within the statutory classes listed in 35 USC 101. The claimed steps do not result in a concrete and tangible result and being directed to an abstract idea (i.e., producing non tangible/concrete result). Tangible requirement does require that the claim must recite more than a 101 judicial exception, in that the process must set forth a practical application of that 101 judicial exception to produce a real-world result, Benson, 409 U.S. at 71-72, 175 USPQ at 676-77).

Dependents claims 2-12, 16-23 are also rejected by virtue of their dependencies and the deficiencies they inherit from their base claims 1 and 15. Claims 13-14 and 24-25

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are apparatus claims corresponding to the method claims 1-12 and 15-23, thus rejected for the same reasons.

Conclusion

4. Prior arts made of record, not relied upon:

Please see attached PTO -892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taghi T. Arani whose telephone number is (571) 272-3787. The examiner can normally be reached on 8:00-5:30 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Taghi T. Arani, Ph.D. Primary Examiner

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